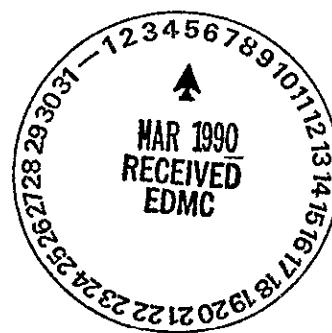


007699

START

ENCLOSURE 4

THE 207-A SOUTH RETENTION BASIN  
PART A PERMIT APPLICATION



3	<b>DANGEROUS WASTE PERMIT APPLICATION</b>										L. EPA/STATE ID. NUMBER WA718901010181617																																																																																																																		
<b>FOR OFFICIAL USE ONLY</b>																																																																																																																													
APPLICATION NUMBER		DATE RECEIVED (MM/DD/YY)		COMMENTS																																																																																																																									
<b>II. FIRST OR REVISED APPLICATION</b>																																																																																																																													
<p>Please use "X" to the question next to A or B below. Once you have checked one of these questions you are indicating you are requesting the first facility or a revised application. If this is your first application and you already have your Facility's EPA/STATE ID. Number, or if this is a revised application, enter your Facility's EPA/STATE ID. Number in Section I above.</p>																																																																																																																													
<b>A. FIRST APPLICATION</b> (check one "X" below and answer the questions)																																																																																																																													
<p><input checked="" type="checkbox"/> 1. THIS FACILITY IS A NEW FACILITY OR HAS NEVER HAD AN OPERATING PERMIT</p>																																																																																																																													
<p><input type="checkbox"/> 2. THIS FACILITY IS OPERATING UNDER A PREVIOUS PERMIT</p>																																																																																																																													
<p>FOR NEW FACILITIES, PROVIDE THE DATE (MM. DD. &amp; YY) OPERATIONS BEGAN OR THE DATE COMMENCEMENT COMMENCED AND DATE COMMENCED</p>																																																																																																																													
<table border="1" style="display: inline-table;"> <tr><td>0</td><td>1</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>8</td></tr> <tr><td>7</td><td>7</td><td></td></tr> </table>			0	1	3	0	1	8	7	7		<table border="1" style="display: inline-table;"> <tr><td>0</td><td>1</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>8</td></tr> <tr><td>7</td><td>7</td><td></td></tr> </table>			0	1	3	0	1	8	7	7		<table border="1" style="display: inline-table;"> <tr><td>0</td><td>1</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>8</td></tr> <tr><td>7</td><td>7</td><td></td></tr> </table>			0	1	3	0	1	8	7	7		<p>FOR NEW FACILITIES, PROVIDE THE DATE (MM. DD. &amp; YY) OPERA- TION BEGAN OR IS DEPICTED TO BEGIN</p>																																																																																									
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<p><b>A. PROCESS CODE</b> -- Enter the code from the list of appropriate design codes and unit capacities used to describe the facility. The codes are provided for planning codes, if there are no codes, enter the codes in the space provided. If a process will be used that is not included in the list of design codes, enter numbers for planning as shown currently in the space provided in the Column #C2.</p>																																																																																																																													
<p><b>B. PROCESS DESIGN CAPACITY</b> -- For each process entered in column A enter the capacity of the process.</p>																																																																																																																													
<p>1. ABSOLUTE -- Enter the amount.</p>																																																																																																																													
<p>2. LIMIT OF MEASURE -- For each process entered in column A(1), enter the units that are the set of well designed codes below that describes the unit of measure used. Only the units of measure that are listed should be used.</p>																																																																																																																													
<table border="1"> <thead> <tr> <th>PROCESS</th> <th>DESIGN CODE</th> <th>APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY</th> <th>PROCESS</th> <th>DESIGN CODE</th> <th>APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY</th> </tr> </thead> <tbody> <tr> <td colspan="6"><b>DISPOSAL</b></td> </tr> <tr> <td>CONTAINER CRASH, SWL, SWL</td> <td>SWT</td> <td>GALLONS OR LITERS</td> <td>TANK</td> <td>TBT</td> <td>GALLONS PER DAY OR LITERS PER DAY</td> </tr> <tr> <td>TANK</td> <td>SBS</td> <td>GALLONS OR LITERS</td> <td>SURFACE IMPOUNDMENT</td> <td>TBS</td> <td>LITERS PER DAY</td> </tr> <tr> <td>WASTE PILE</td> <td>SBS</td> <td>CUBIC YARDS OR CUBIC METERS</td> <td>INCINERATOR</td> <td>TBC</td> <td>TONS PER HOUR OR METRIC TONS PER HOUR</td> </tr> <tr> <td>SURFACE IMPOUNDMENT</td> <td>SBA</td> <td>GALLONS OR LITERS</td> <td></td> <td></td> <td>GALLONS PER HOUR OR LITERS PER HOUR</td> </tr> <tr> <td>DISPOSAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>INJECTION WELL,</td> <td>DRB</td> <td>GALLONS OR LITERS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>LANDFILL</td> <td>DRB</td> <td>ACRE-FEET, FEET CUBIC FEET, CUBIC YARDS AND CUBIC METERS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>LAND APPLICATION</td> <td>DRB</td> <td>ACRES OR HECTARES</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OCEAN DISPOSAL</td> <td>DRB</td> <td>ACRES OR HECTARES</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SURFACE IMPOUNDMENT</td> <td>DRB</td> <td>GALLONS PER DAY OR LITERS PER DAY</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>GALLONS OR LITERS</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><b>UNIT OF MEASURE</b></td> </tr> <tr> <td>GALLONS.....</td> <td>5</td> <td>LITERS PER DAY.....</td> <td>7</td> <td>ACRE-FEET</td> <td>A</td> </tr> <tr> <td>LITERS.....</td> <td>6</td> <td>TONS PER HOUR.....</td> <td>8</td> <td>HECTARES</td> <td>B</td> </tr> <tr> <td>CUBIC YARDS.....</td> <td>7</td> <td>METRIC TONS PER HOUR</td> <td>9</td> <td>ACRES</td> <td>C</td> </tr> <tr> <td>CUBIC METERS.....</td> <td>8</td> <td>GALLONS PER HOUR</td> <td>10</td> <td>HECTARES</td> <td>D</td> </tr> <tr> <td>GALLONS PER DAY.....</td> <td>9</td> <td>LITERS PER HOUR</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												PROCESS	DESIGN CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	DESIGN CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	<b>DISPOSAL</b>						CONTAINER CRASH, SWL, SWL	SWT	GALLONS OR LITERS	TANK	TBT	GALLONS PER DAY OR LITERS PER DAY	TANK	SBS	GALLONS OR LITERS	SURFACE IMPOUNDMENT	TBS	LITERS PER DAY	WASTE PILE	SBS	CUBIC YARDS OR CUBIC METERS	INCINERATOR	TBC	TONS PER HOUR OR METRIC TONS PER HOUR	SURFACE IMPOUNDMENT	SBA	GALLONS OR LITERS			GALLONS PER HOUR OR LITERS PER HOUR	DISPOSAL						INJECTION WELL,	DRB	GALLONS OR LITERS				LANDFILL	DRB	ACRE-FEET, FEET CUBIC FEET, CUBIC YARDS AND CUBIC METERS				LAND APPLICATION	DRB	ACRES OR HECTARES				OCEAN DISPOSAL	DRB	ACRES OR HECTARES				SURFACE IMPOUNDMENT	DRB	GALLONS PER DAY OR LITERS PER DAY						GALLONS OR LITERS				<b>UNIT OF MEASURE</b>						GALLONS.....	5	LITERS PER DAY.....	7	ACRE-FEET	A	LITERS.....	6	TONS PER HOUR.....	8	HECTARES	B	CUBIC YARDS.....	7	METRIC TONS PER HOUR	9	ACRES	C	CUBIC METERS.....	8	GALLONS PER HOUR	10	HECTARES	D	GALLONS PER DAY.....	9	LITERS PER HOUR			
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<p><b>EXAMPLE FOR COMPLETING SECTION III</b> (shown in the numbers X-1 and X-2 below: A facility has two storage tanks, one tank can store 200 gallons and the other can store 400 gallons. The facility also has an impounding tank that can store up to 20 gallons per hour.</p>																																																																																																																													
L I S T I D E N U M E R	A. PRO- CESS CODE (PLANNING CODES)	<b>II. PROCESS DESIGN CAPACITY</b>			FOR OFFICIAL USE ONLY	L I S T I D E N U M E R	A. PRO- CESS CODE (PLANNING CODES)	<b>III. PROCESS DESIGN CAPACITY</b>			FOR OFFICIAL USE ONLY																																																																																																																		
		1. AMOUNT <i>(Capacity)</i>		2. UNIT OF MEAS- URE <i>(Unit)</i>				1. AMOUNT <i>(Capacity)</i>		2. UNIT OF MEAS- URE <i>(Unit)</i>																																																																																																																			
X-1	S 0 2	600	G		5																																																																																																																								
X-2	T 0 3	20	E		6																																																																																																																								
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4					10																																																																																																																								

Continued from the front.

**II. PROCESSES (continued)**

1. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY  
S04

The 207-A South Retention Basin (Basin) began operation in March 1977. The Basin consists of three concrete cells (S04) of 70,000 gallon capacity each for a total combined capacity of 210,000 gallons. All three cells are coated to prevent constituents from penetrating the concrete. The Basin was used for the interim storage of the 242-A Evaporator (Evaporator) process condensate effluent to allow for sampling and analysis before it was discharged to the 216-A-37-1 Crib for final disposition. Discharge of Evaporator process condensate effluent to the Basin was terminated on April 12, 1989, when it was determined the Evaporator process condensate contained dangerous waste regulated under WAC 173-303. The Basin will remain out of service and will be closed under interim status. A closure plan for the decommissioning and final disposition of this waste management unit is planned.

**IV. DESCRIPTION OF DANGEROUS WASTES**

- A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit numbers(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous wastes: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section II to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section II to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Row IV(X1); and (3) Enter in the space provided on page 4, the line number and the additional codes(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTES: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER — Dangerous wastes that can be described by more than one Waste Number shall be described on the line as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

A. DANGEROUS WASTE NO. (WAC 173-303)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (see page 5)	D. PROCESSES	
			1. PROCESS CODES (see page 5)	2. PROCESS DESCRIPTION (if a code not entered in D(1))
X-1 K.0 5 +	900	P	T 0 J D 8 0*	
X-2 D 0 0 1	400	P	T 0 J D 8 0	
X-3 D 0 0 1	100	P	T 0 J D 8 0	
X-4 D 0 0 3			T 0 J D 8 0	Included with above

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Continued from page 2.

NOTE: Photocopy this page before continuing if you have more than 28 wastes to list.

I. O. NUMBER (enter from page 1)	
W A 7 8 9 0 0 0 8 9 8 7	

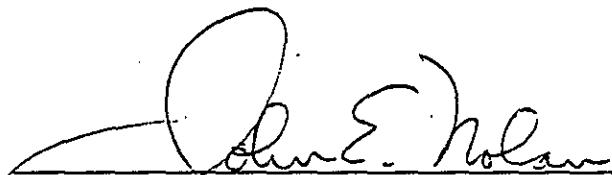
IV. DESCRIPTION OF DANGEROUS WASTES (continued)

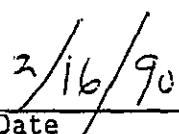
L I N O S	A. B. C. D. E.	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEA- SURE (check one)	D. PROCESSES		2. PROCESS DESCRIPTION (If a process is not entered in DC1b)
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (If a process is not entered in DC1b)	
1	W T O 2	1,749,300	P	S 0 4		Storage
2	F 0 0 3					Included with above
3						
4						
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9						
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26						

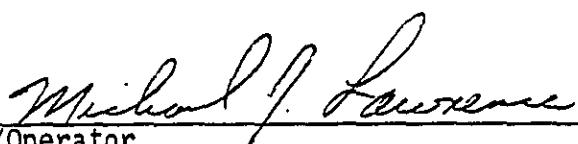


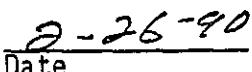
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

  
John E. Nolan  
Co-operator  
John E. Nolan, President  
Westinghouse Hanford Company

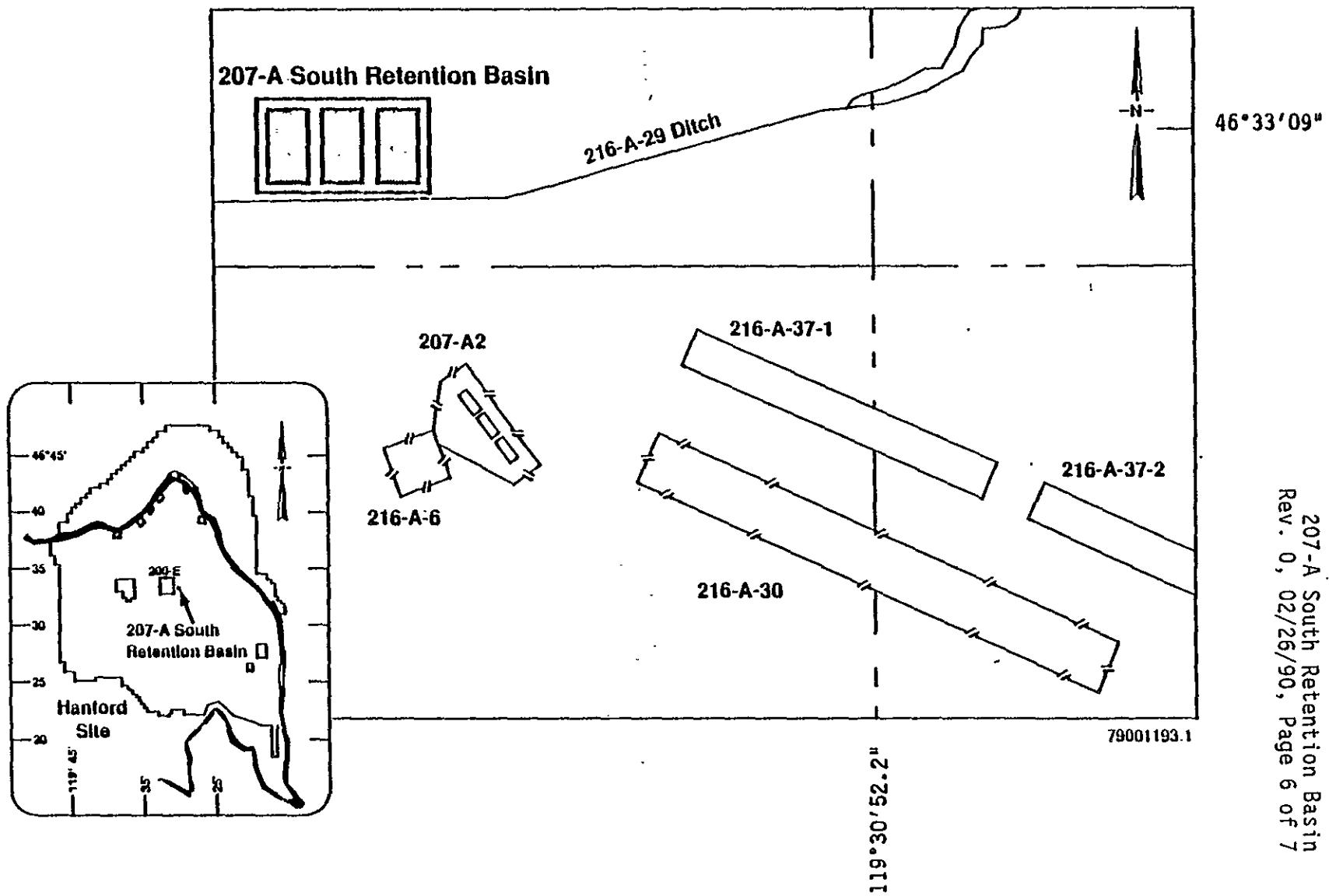
  
Date

  
Michael J. Lawrence  
Owner/Operator  
Michael J. Lawrence, Manager  
U.S. Department of Energy  
Richland Operations Office

  
Date

9 1 1 1 8 7 6 5 4 3

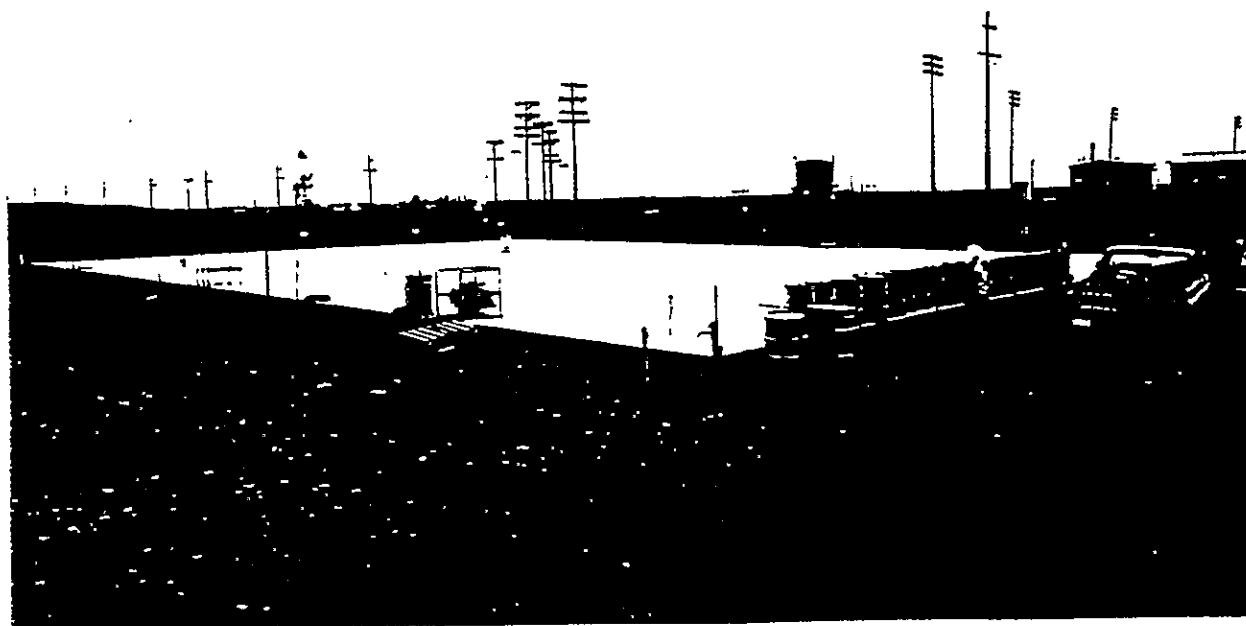
# 207-A South Retention Basin Site Plan



WA7890008967

207-A South Retention Basin  
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## 207-A SOUTH RETENTION BASIN



46°33'09"  
119°30'52.2"

90012349-3CN  
(PHOTO TAKEN 1990)